



**PATIENT**

Lewy Deary

**SPECIES**

Canine

**BREED**

Chinese Pug

**SEX**

Neutered male

**AGE**

5 years

**WEIGHT**

26.9 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Todd

**HOSPITAL NAME**

Lambs Gap AH

**REFERRING VET**

Dr. Campbell

**INVOICE**

30898

**DATE**

6/7/22

**PRESENTING CLINICAL SIGNS**

History: Lewy is a 5.5 year old MN Pug. I recommended an abdominal U/S due to intermittent, vague signs of gastrointestinal distress. Owner reports 4 episodes of shaking, drooling, decreased appetite and reluctance to move over the last few months. It began in August 2021 with suspected pancreatitis (abnormal snap cPL at local ER). Since that time he had an episode in December, February and May. During these episodes, he seems to respond to supportive care, including Cerenia, Famotidine and Gabapentin. He is fed Hill's i/d and does not get any table food. His owner does give him a "bedtime bone" that has some rawhide but he doesn't typically eat the rawhide. Bloodwork in December during one of these episodes showed no significant concerns, and the cPL was normal (48, range 0-200). In April 2022, his owner also suspects he had 2 seizures following episodes of coughing (discussed seizure vs syncope vs severe pain given her description).

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 4.52 cm. The right kidney measured 4.24 cm.

**Adrenal Glands**

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 1.74 x 0.34 cm at the caudal pole and 0.34 cm at the cranial pole. The right adrenal gland measured 1.74 x 0.8 cm at the cranial pole and 0.4 cm at the caudal pole.

**Spleen**

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

**Liver**

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of



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normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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**Gastrointestinal**

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Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

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**Pancreas**

**AGE**

5 years

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

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**ULTRASONOGRAPHIC FINDINGS**

Structurally normal abdomen.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Dietary indiscretion, food intolerance/indiscretion, structurally insignificant inflammatory bowel or occult parasitism and occult Addison's are all potentials.

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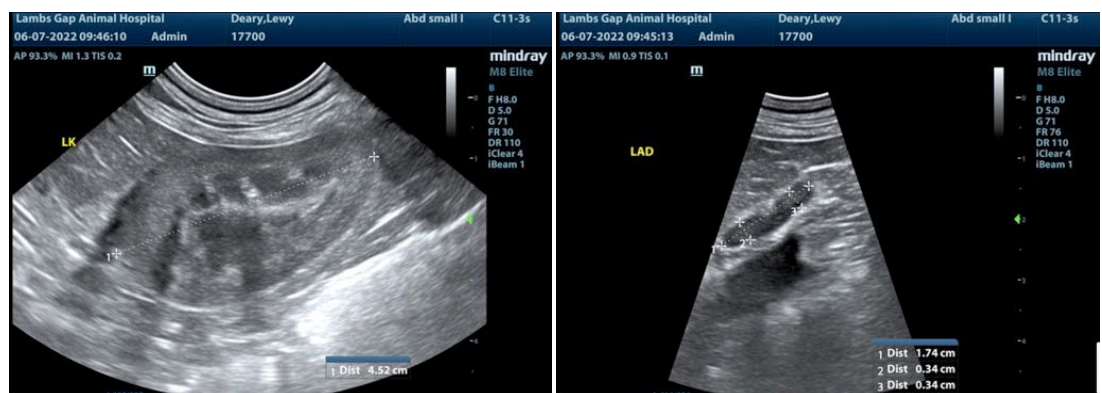
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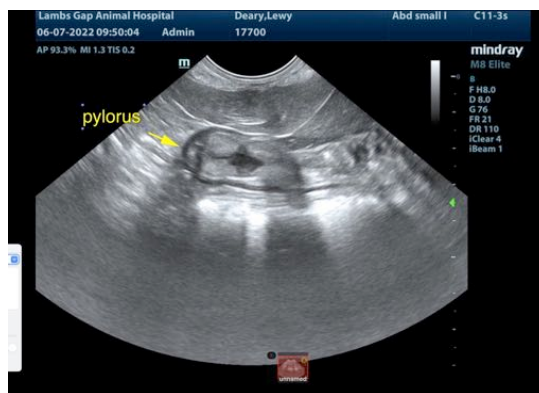
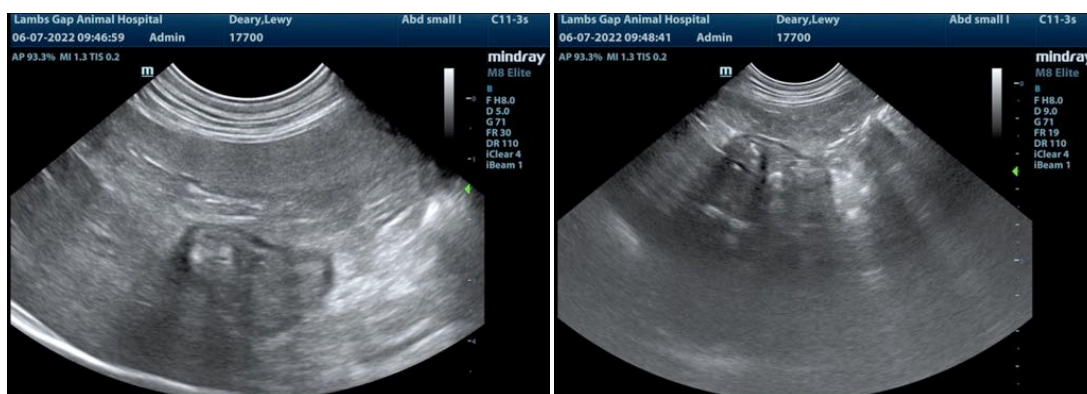
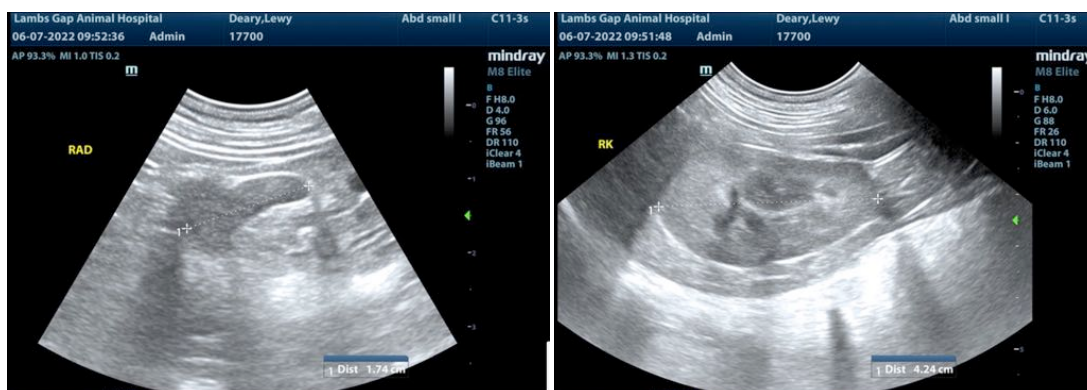
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com



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info@SonoPath.com

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